

ASYNCHRONOUS DATA MIRRORING WITH LOOK-AHEAD
SYNCHRONIZATION RECORD

ABSTRACT

A method for managing a data storage system includes
5 maintaining a record predictive of locations to which
data are to be written on the primary storage subsystem
by a host processor. Upon receiving data from the host
processor at the primary storage subsystem to be written
to a specified location on the first non-volatile storage
10 media, if the specified location is not included in the
record, the record is updated responsively to the
specified location. The primary storage subsystem
signals the host processor that the data have been stored
in the data storage system responsively to receiving the
15 data and, if the specified location was not included in
the record, responsively to updating the record.